

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : TORAY IND INC

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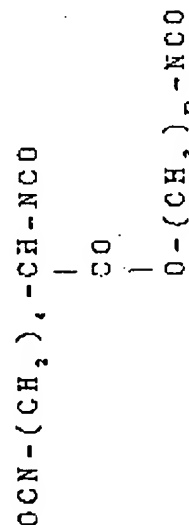
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(54) PRODUCTION OF RADICAL-CURABLE COMPOUND

(57)Abstract:

PURPOSE: To obtain the titled compound curable by irradiation with ultraviolet ray or the like and excellent in affinity for pigments, etc., and adhesion to a substrate, etc., by reacting a specified triisocyanate with a monoalcohol and, optionally, a dihydric to tetrahydric alcohol.

CONSTITUTION: The titled compound having both an isocyanato group and an unsaturated group in the molecule and a MW of 280W8,000 is obtained by mixing a triisocyanate (A) of the formula (wherein n is 2W8) with a monoalcohol (B) (MW≤1,500) having a radical-polymerizable unsaturated group (e.g., 2-hydroxyethyl acrylate) and an m-hydric (m is 2W4) alcohol (C) of a MW≤6,000 (e.g., 1,3-butanediol) at 30W120°C at a molar ratio of component A to component B of 1:0.1W2.9 or a molar ratio of component A to component B to component C of 0.5mWm:0.1mW1.9m:1 and reacting the mixture in the presence of, optionally, an inert organic solvent and a polymerization initiator such as phenothiazine.



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[Date of request for examination]